

Master in Artificial Intelligence



Algorithm Selection & Development XV





Purpose

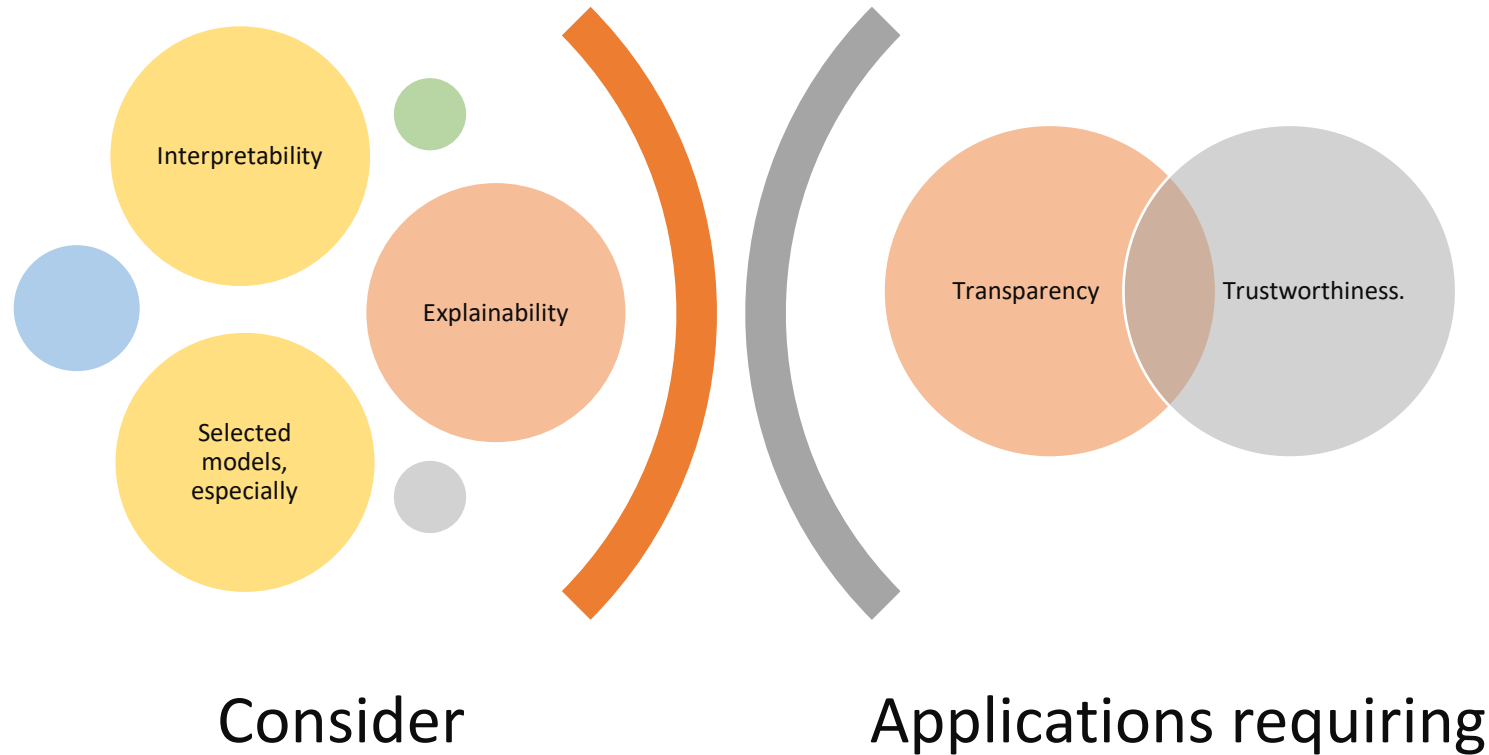
The purpose of the section is to help you learn how to research, select, and develop appropriate algorithms to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

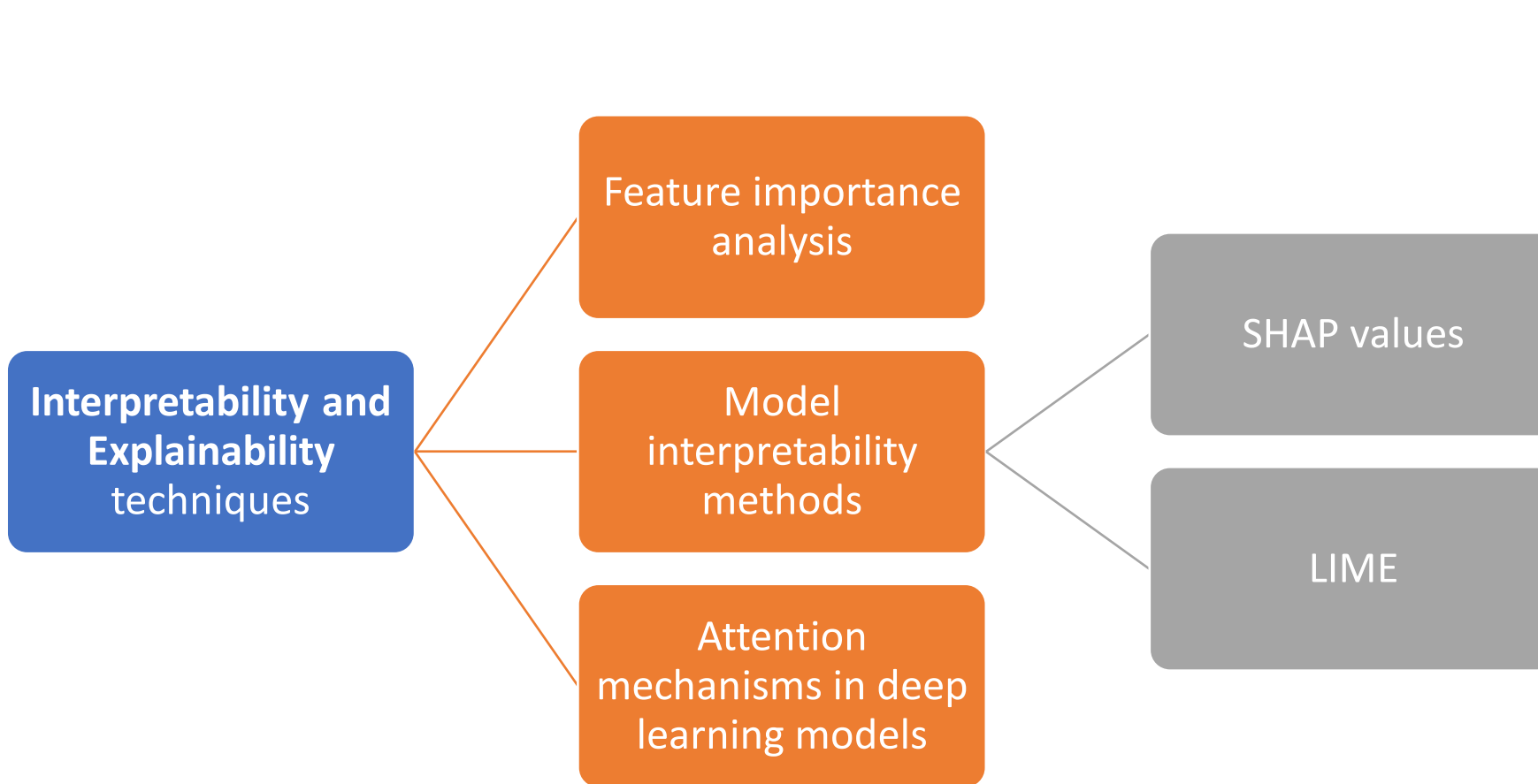
- **How to consider the interpretability and explainability of the selected models**



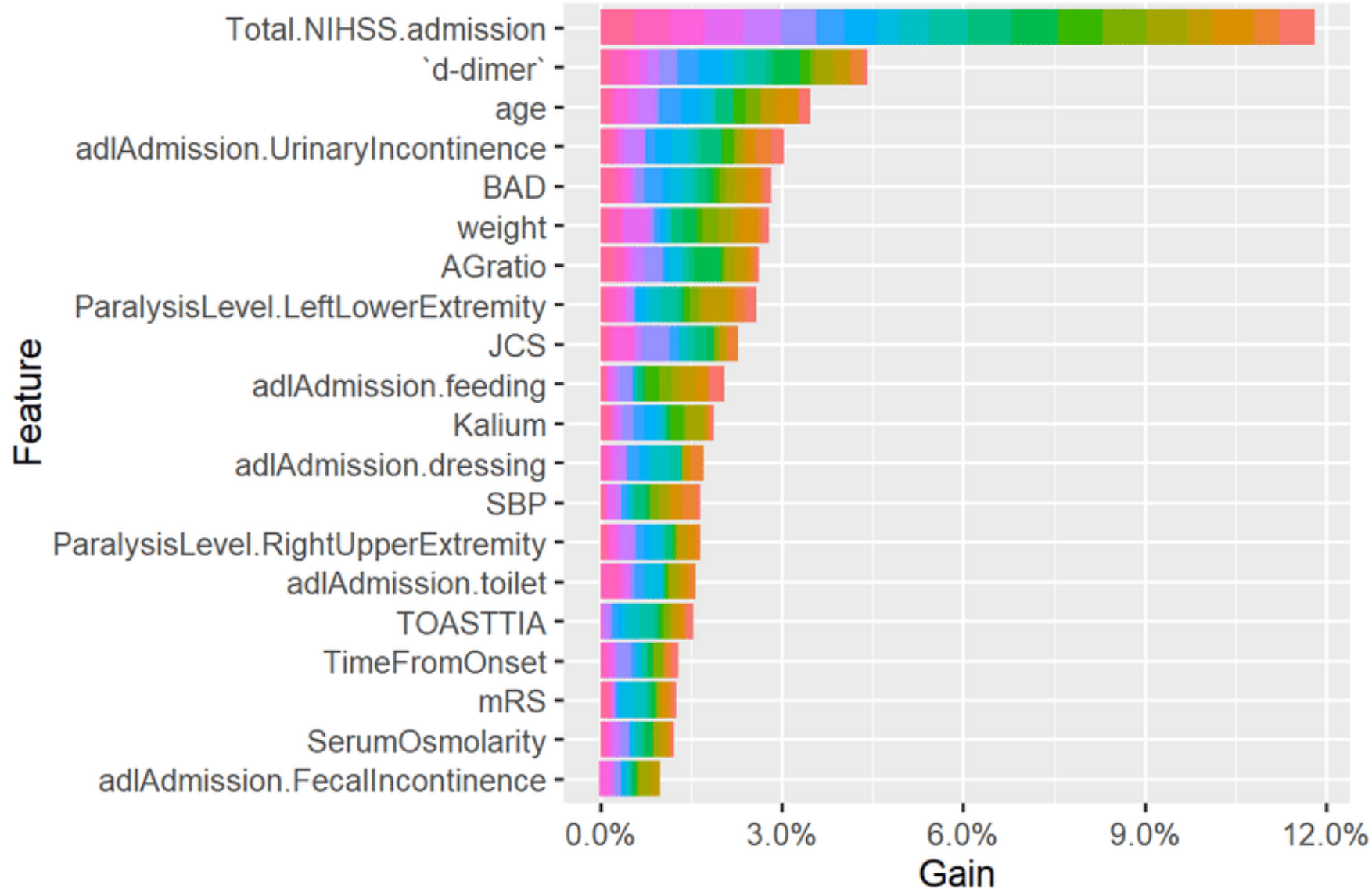
We are now ready to consider Interpretability and Explainability



How to consider the interpretability and explainability of the selected models



How to use feature importance analysis to provide insights into model predictions



How to use feature importance analysis to provide insights into model predictions

Train the Model



Calculate Feature Importance Scores



Visualize Feature Importance



Interpret Insights



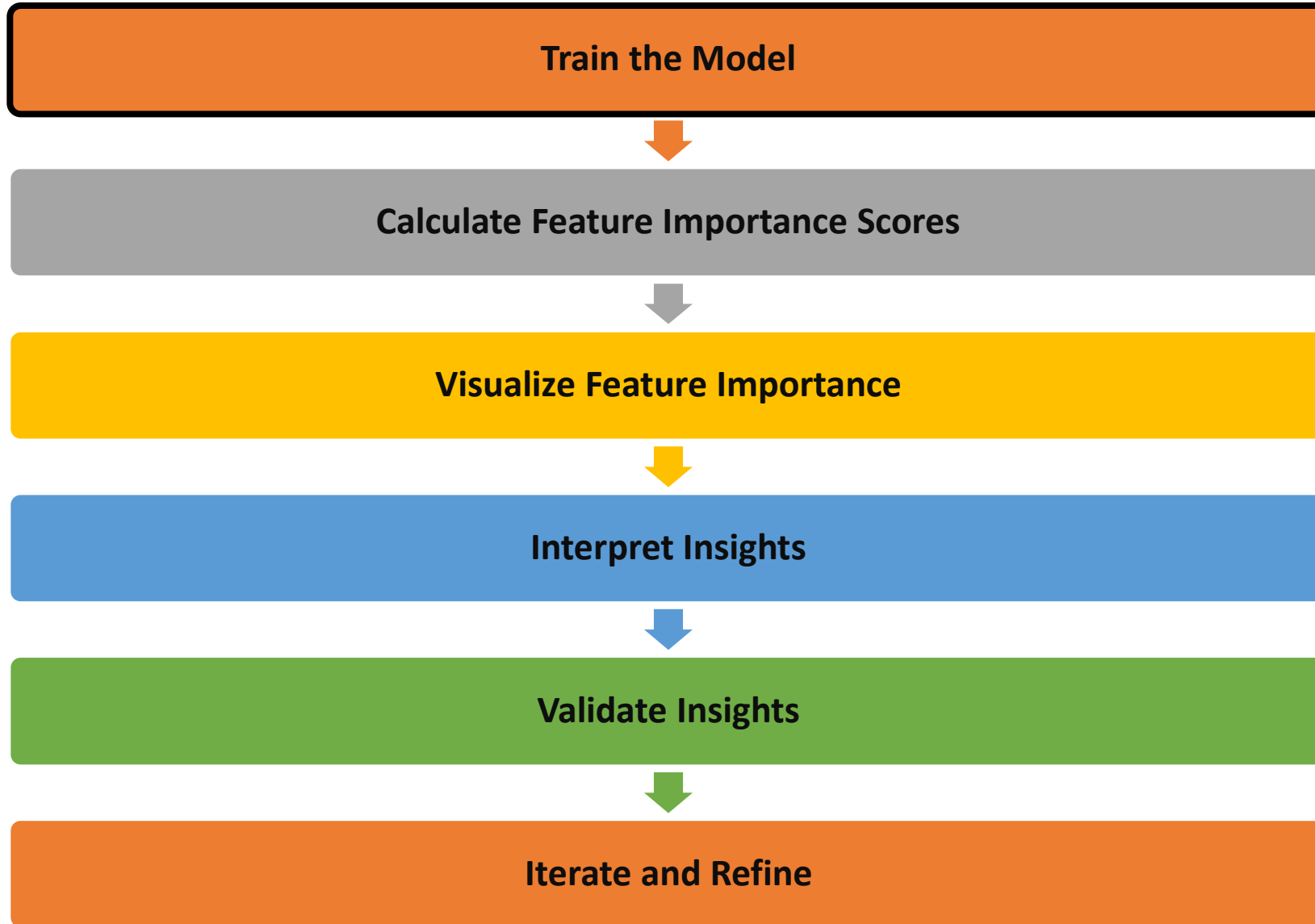
Validate Insights



Iterate and Refine



How to train the model for feature importance analysis to provide insights into model predictions



How to use feature importance analysis to provide insights into model predictions

Decision
trees

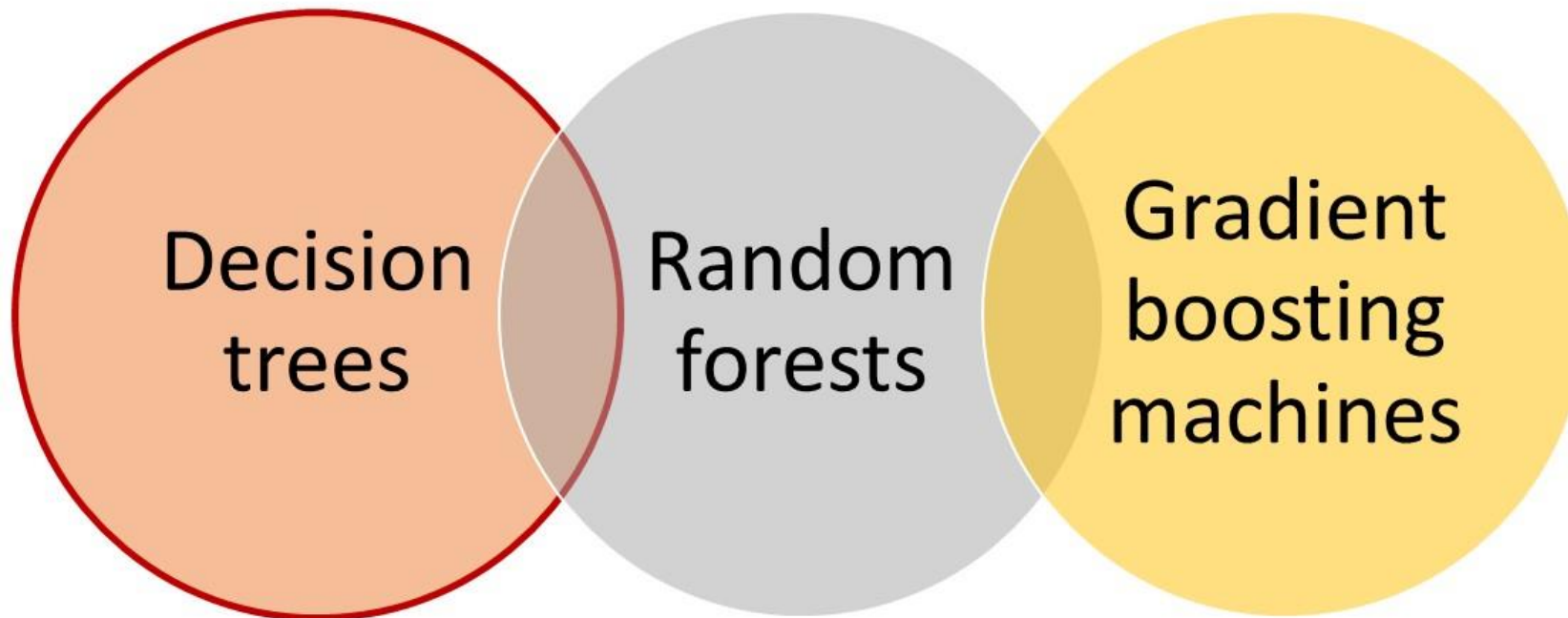
Random
forests

Gradient
boosting
machines



What is next?

How to train Decision trees algorithm for getting feature importance



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*Thank
you*



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